

S/075/62/037/007/001/006

Spectrographic quantitative determination... B119/B186

were tabulated on 5 pages. There are 3 figures and 4 tables. The most important English-language reference is: J. A. Morris, C. E. Repper, Analyt. Chem. 24, 1399 (1952).

ASSOCIATION: Veseoyusnyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya, Moskva (All-Union Scientific Research Institute of Mineral Raw Materials, Moscow)

SUBMITTED: December 30, 1961

UR/0032/66/032/006/0696/0700 SOURCE CODE: ACC NRI AP6028191 Rusanov, A. K.; Alekseyeva, V. H.; Iliyasova, N. V. AUTHOR: ORG: All-Union Scientific Research Institute for Mineral Haw Materials (Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo cyr'ya) TITIE: Elimination of the mutual effect of tantalum and niobium in the spectrum analysis of mineral ores SOURCE: Zavodskaya laboratoriya, v. 32, no. 6, 1966, 696-700 TOPIC TAGS: spectrum analysis, tantalum, niobium cobalt compound ABSTRACT: The article proposes a spectral method for simultaneous determination of niobium and tantalum, which eliminates the mutual effect of these two elements. The method is based on the addition of cobalt chloride to the samples being analyzed. In the interval 0.003-0.1%, the reproducibility (variation coefficient) of a single determination of tantalum and niobium is 11%. It was found that the effect of niobium on the intensity of the tantalum lines can be eliminated by the creation of conditions under which tantalum will appear in the arc cloud independently of the appearance of niobium. This is achieved by the addition to the samples of reagents (metal chlorides or fluorides) which lead to the formation of new compounds. The experimental results given in the article were obtained by additions of anhydrous cobalt chloride. It WC: 543.42 Card 1/2

MOSHKOVSKIY, Sh.D.; SHUYKINA, E.Ye.; DEMINA, N.A.; TIBUNGKAYA, N.A.;
VRUBLEVSKAYA, O.S.; ZHUKOYA, T.A.; ZABEZHANSKIT, V.T.;
Prinimali uchastiye: BAGRAMYAN, M.G.; IL'YISUVA, S.T.

Methodology of the detection of asymptomatic carriers of quartan malaria. Med. paras. i paraz. bol. 34 no.2:1RM-188 MM-Ap '65.

(MIRA 18:11)

1. Otdel protozoologii Instituta meditsinskoy parazitologii i tropicheskoy meditsiny imeni Ys.I. Martsinovskogo Ministorstva zdravookhraneniya SSSR, Moskva.

ROSHCHIN, I.V.; NIFONTOVA, M.V.; PHOKHOROV, Yu.D.; EAGHOVA, M.D.; KUBLAKOVA, P.S.; IIYASOVA, S.V.; EULYCHEV, G.V.

Hygienic characteristics of the dust factor, and health of workers engaged in cleaning boilers of electric stations. Uch.map.Mosk. nauch.-issl.inst.san.i gig. no.8864,-70161. (MRRA 16:7)

(LUNGS—DUST DISEASES) (BOILERS)

PHASE I BOOK EXPLOITATION

307/2219

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R. Glavnoye upravleniye geologii i okhrany medr

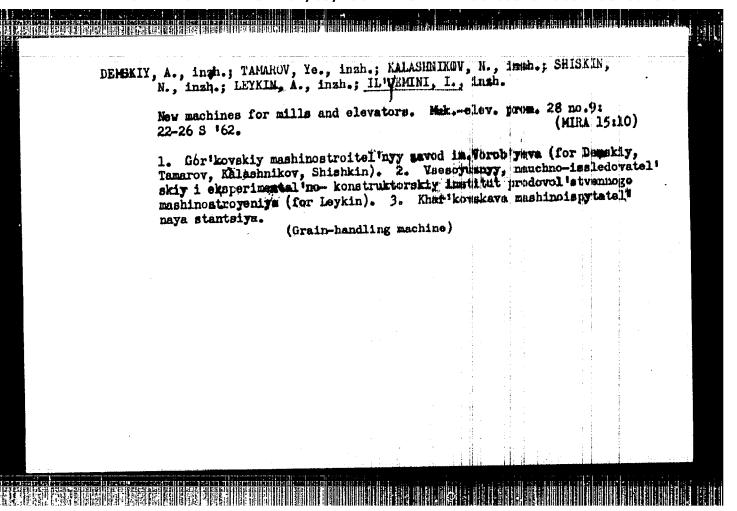
- Geologiya 1 neftegazonosnost' Vostochnoy Sibiri (Geology and Oil- and Gas-bearing Possibilities of Eastern Siberia) Moscow, Gostop-tekhizdat, 1959. 486 p. 1,650 copies printed.
- Additional Sponsoring Agency: Vostochno-Sibirakiy neftegeologicheskiy trest.
- Ed.: V.G. Vasil'yev; Executive Ed.: Yel.G. Pershina; Tech. Ed.: I.G. Fedotova.
- PURPOSE: The book is intended for geologists interested in the stratigraphy, lithology, tectonics, and the oil- and gas-bearing possibilities of the Eastern Siberian platform and Zabaykal'ye.
- COVERAGE: This collection of articles contains materials on the stratigraphic classification and lithologic characteristics of sediments of the Cambrian system and of the so-called "ancient" beds developed along the northern slope of the Eastern Sayan Mountains and

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Geology and Oil- and Gas-bearing (C	Sov/2219
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LEYKIN, A.; IL'YEMINI, I.

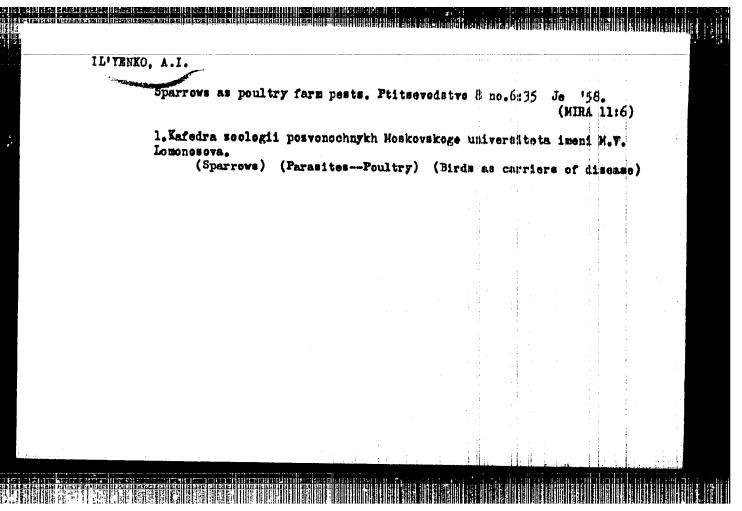
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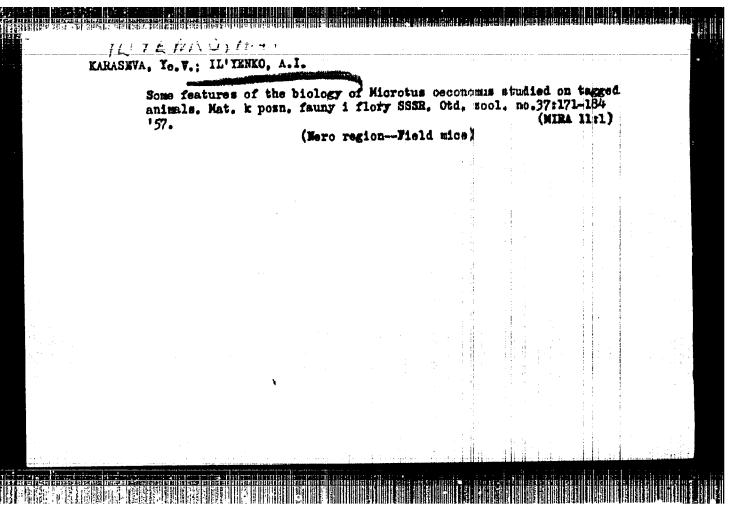
l. Vsesoyuznyy nauchno-issledovatel'skiy i eksperimental'no-konstruktorskiy institut prodovol'stvennogo mashinostroyoniya (for Leykin). 2. Khar'kovskaya mashinolspytatel'naya stantsiya (for Is'yemini).

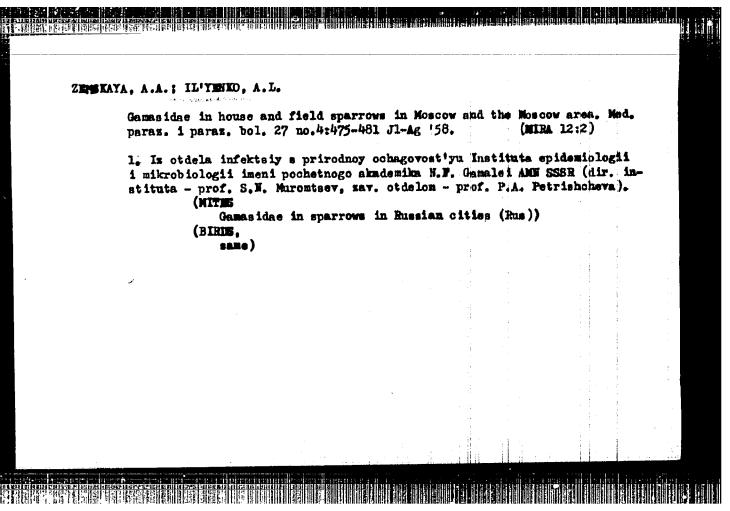
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USAK-FORGORNOV, B.M., gornyy.inzh.

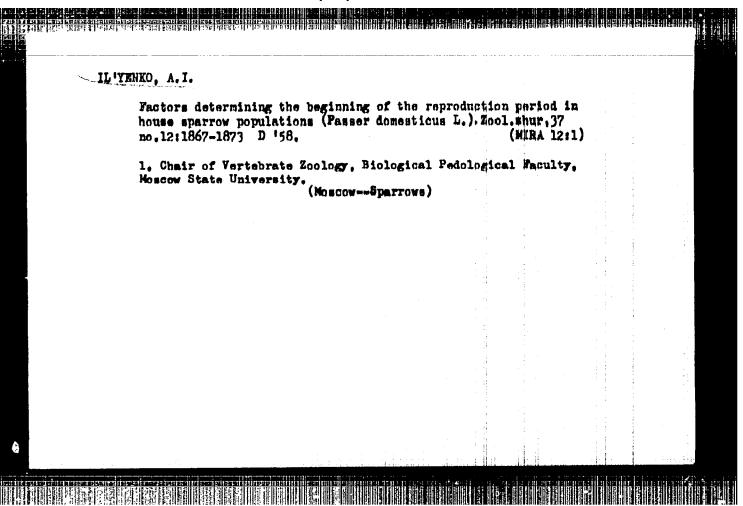
Use of reinforced concrete arch supports in the Donets Basin mines. Ugol' Ukr. 6 no.11:11-13 N '62. (MIRA 15:12)

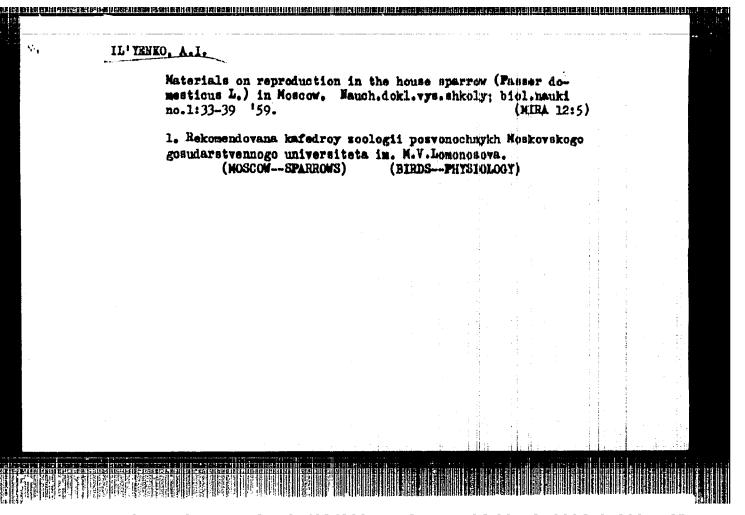
1. Institut gornogo dela im. A.A.Skochinskogo. (Donets Basin—Mine limbering)

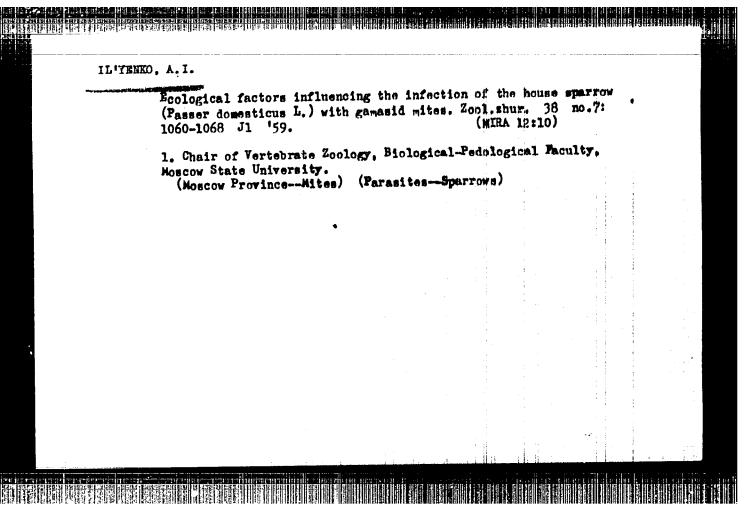












EARASEVA, Ye.V.; IL'TENEO, A.I.

Studying the biology and geographical distribution of shrews in northern Earakhstan. Trudy Inst. sool. AN Earakh. SSE 13:78-92 (60. (NIBA 13:7)

1. Otdel infektsiy s prirodnoy ochagovost'yu Instituta spidemiologii i mikrobilogii im. N.F. (Gamalaya. (Easakhstan-Shrews))

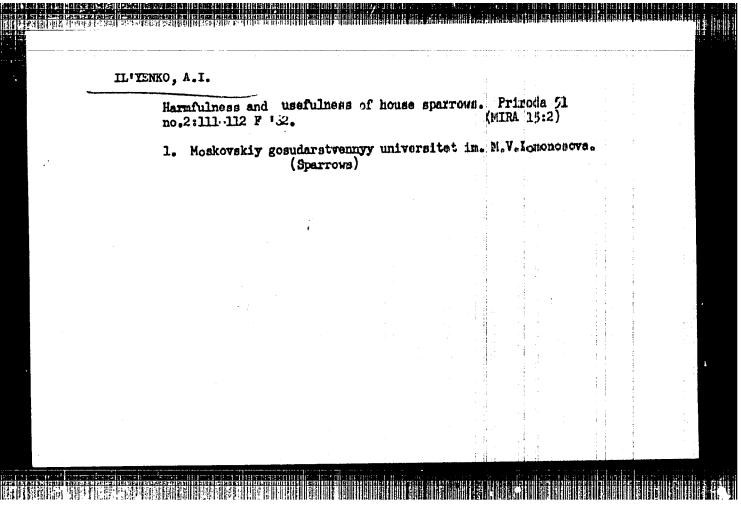
sparrow (Passer domesticus L.) in the city of Moscow and subvivation in connection with its potential epidemiological and economical significance." Mos. 1961. (Mos State Ped Inst im V. I. Lenin) (KL, 8-61, 237)

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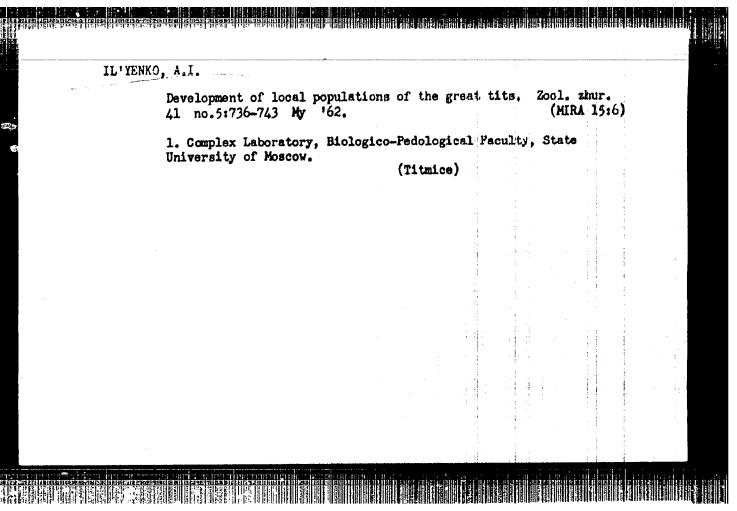
IL'YENKO, A.I.: ZAGORODNYAYA, G.Yu.

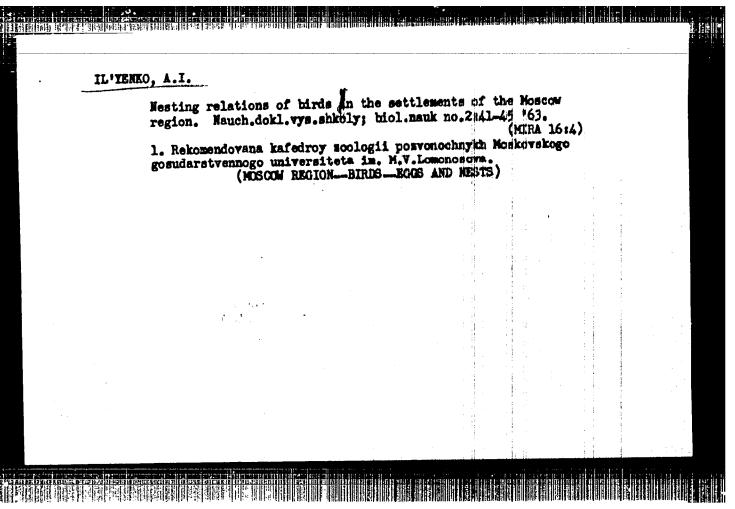
Importance of artificial nesting places as night shelters in winter for some birds nesting in tree hollows. Zool. zhur. 40 no.ll: 1736-1738 N '61.

1. Biological-Pedological Faculty, State University of Moscow. (Birds, Protection of)

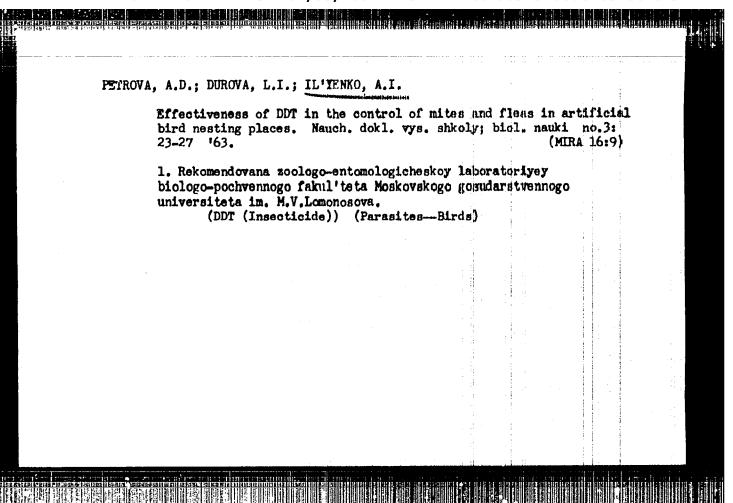


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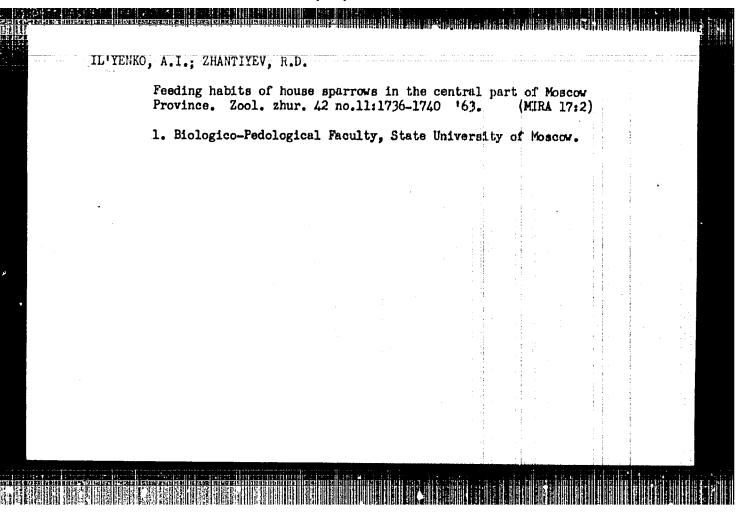
CIA-RDP86-00513R000618520015-3" APPROVED FOR RELEASE: 04/03/2001



IL'YENKO, A.I.; ZUBCHANINOVA, Ye.V.

Year-round observations of labeled red-backed bank volume and wood mice in the Moscow region. Zool. shur. 42 no.48509-617 163. (MIRA 1617)

 Institute of Biological Physics, Academy of Sciences of the U.S.S.R., Moscow. (Moscow region—Field mice)



3008B S/057/61/051/011/003/019 B104/B108

26.7311

Il'yenko, B. P., and Zykov, V. G.

AUTHORS:

Experimental determination of the regions of magnetic sur-

TITLE: Experimental determination faces limited by a separatrix

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 31, no. 11, 1961, 1289 -

1293

TEXT: Attempts are made to determine experimentally the regions of magnetic surfaces limited by a separatrix as functions of the longitudinal magnetic field and the current in a stellarator coil, using a model in which the plasma is simulated by an electron beam. The experimental dewhich the plasma is simulated by an electron beam. The experimental dewhich the plasma is simulated by an electron beam. The experimental dewhich is a cylindrical vacuum chamber made of glass (10 cm in diameter, vice is a cylindrical vacuum chamber made of glass (10 cm in diameter, an electron gun 80 cm long), which is evacuated down to 5.10-6 mm Hg. An electron gun 1.500 cm long in the state injecting electrons of 1000 - 1500 ev is installed at one end of the tute. Injecting electrons of 1000 - 1500 ev is installed at one end of the tute. Injecting electrons of 1000 - 1500 ev is installed at one end of the tute. Injecting electrons of 1000 - 1500 ev is installed at one end of the tute. Injecting electrons of 1000 - 1500 ev is installed at one end of the tute. Injecting electrons of 1000 - 1500 ev is installed at one end of the tute. Injecting electrons of 1000 - 1500 ev is installed at one end of the tute. Injecting electrons of 1000 - 1500 ev is installed at one end of the tute. Injecting electrons of 1000 - 1500 ev is installed at one end of the tute. Injecting electrons of 1000 - 1500 ev is installed at one end of the tute. Injecting electrons of 1000 - 1500 ev is installed at one end of the tute. Injecting electrons of 1000 - 1500 ev is installed at one end of the tute. Injecting electrons of 1000 - 1500 ev is installed at one end of the tute. Injecting electrons of 1000 - 1500 ev is installed at one end of the tute. Injecting electrons of 1000 - 1500 ev is installed at one end of the tute. Injecting electrons of 1000 - 1500 ev is installed at one end of the tute. Injecting electrons of 1000 - 1500 ev is installed at one end of the tute. Injecting electrons of 1000 ev is installed at one end of the tute. Injecting electrons of 1

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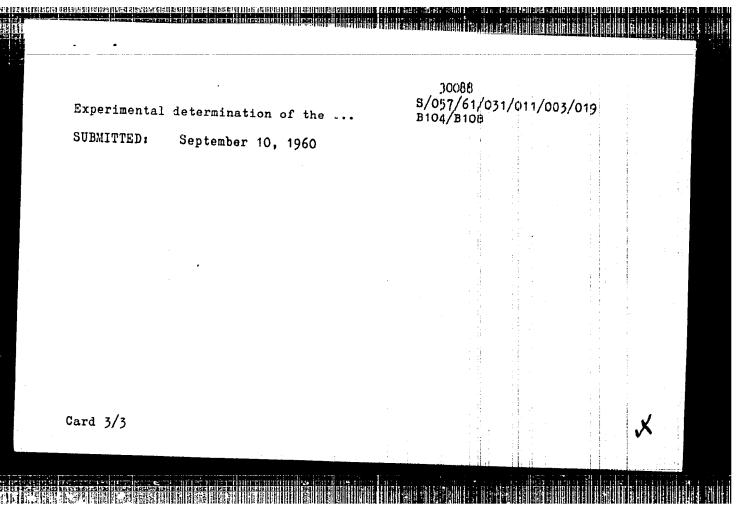
Experimental determination of the ...

tube (three pairs of turns with a radius of 5.5 cm, at a pitch of 60 cm). Both coils are fed from separate sources, and the currents flowing in them can be controlled independently. An out-of-focus electron beam was injected to determine the regions limited by the separatrix. Measurements were made at H₂ = 20 oersteds. When the stellarator field and the

longitudinal magnetic field were switched on simultaneously the image on the screen changed from a circle into a triangle. Its vertices pointed toward those turns of the stellarator coil, in which the current was directed opposite H_Z. When the screen was moved along the axis of the tube, the triangle rotated. L. Spitser (Dokl. na II Zhenev. Konf. pc mirn. ispol'z. atom. energii, 1958), A. I. Morozov, A. S. Solov'yev (ZhTF, 30, 271, 1960) and V. F. Aleksin (K raschetu magnithogo polya stellaratora, nast. vyp., str. 1284) are mentioned. The authors thank V. F. Aleksin and V. T. Tolok for advice, and K. D. Sinel'nikov, Member of the AS UkrSSR, for assistance and interest. There are B figures, 2 tables, and 4 references: 2 Soviet and 2 non-Soviet.

ASSOCIATION: Fiziko-tekhnicheskiy institut AN USSR (Physicotechnical Card 2/3 Institute AS UkrSSR)

X



s/2781/63/00p/003/0211/0216

AT4036061 ACCESSION NR:

AUTHORS: Il'yenko, B. P.; Zy*kov, V. G.; Lats'ko, Ye. M.; Tolok, v. T.

TITLE: Measurement of the twist angle and turning angle of a force line in a system with a helical magnetic field

SOURCE: Konferentsiya po fizike plazmy* i problemam upravlyuyemogo termoyadernogo sinteza. 3d, Kharkov, 1962. Fizika plazmy* i problemy* upravlyayemogo termoyadernogo sinteza (Plasma physics and problems of controlled thermonuclear synthesis); doklady* konferentsii, no. 3. Kiev, Izd-vo AN UkrssR, 1963, 211-216

TOPIC TAGS: magnetic mirror, plasma confinement, magnetic field, magnetic pinch, plasma magnetic field interaction, electron beam, charged particle motion

ABSTRACT: The work described is a continuation of earlier experi-

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APPROVED FOR RELEASE: 04/03/2001

ACCESSION NR: AT4036061

Section of the lateral of the property of the

ments on the confinement of plasma in traps of the stellarator type (ZhTF v. 31, 1289, 1961 and v. 32, 1190, 1962). The paper is devoted to an experimental investigation of the twist angle and turning angle in systems with helical magnetic fields, using a vacuum chamber 9 cm in diameter and 140 cm long (straight dopper tube). The longitudinal magnetic field was produced by 12 single-layer coils and had a maximum in the axial direction of 3,4 x 104 A/m. The charged particles were confined in the stellarator by external magnetic field in which each force line was gradually wrapped around the axial line of the chamber. The twist angle of the force lines were measured with the aid of a rotating electron gun, the construction of which is described elsewhere (ZhETF, v. 32, 1190, 1962). The measurement results were compared (in an axial magnetic field 3.4 x 10° A/m and at a current of 440 A) with the theoretical formu-The force-line rotation angle was measured on the curved section of the stellarator model in a longitudinal magnetic field 7.2 x x 104 A/m and at a current of 1100 A in the coil. The measurements

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ACCESSION NR: AT4036061

have shown that the angular rotation of the beams on the external side of the curvilinear section is larger than on the external side. This difference does not affect the motion of the particles in the closed system, since the average turning angle remains the same and depends only on the radius. The measurement results showed satisfactory agreement with the calculated data. Orig. art. has: 7 figures and 2 formulas.

ASSOCIATION: None

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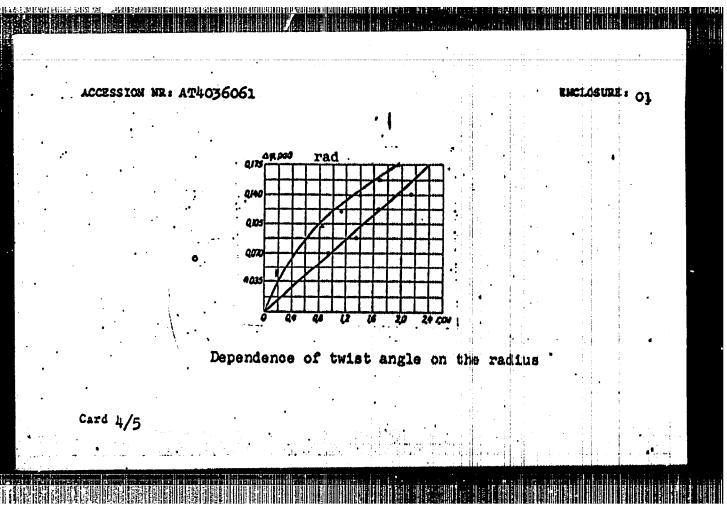
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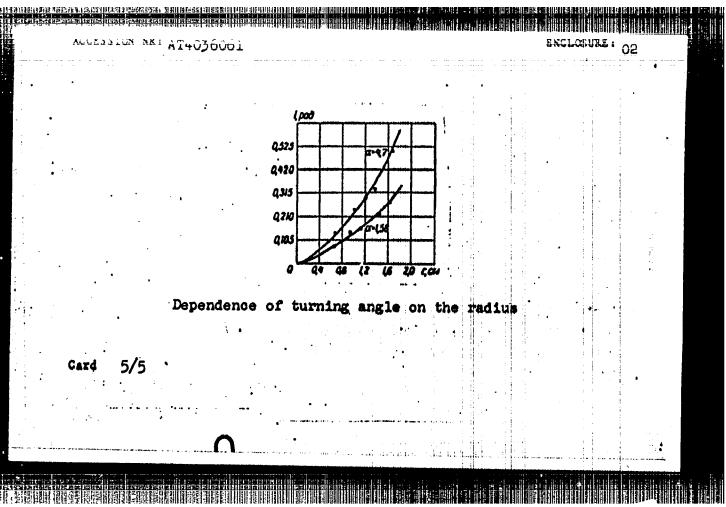
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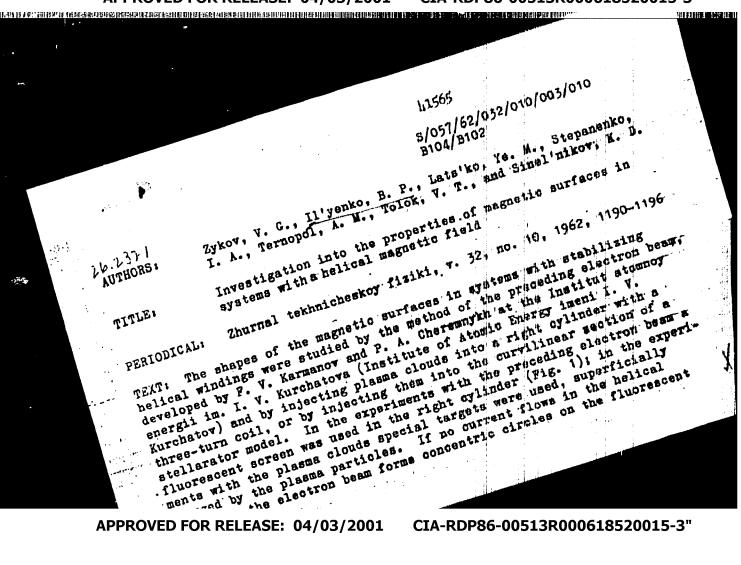
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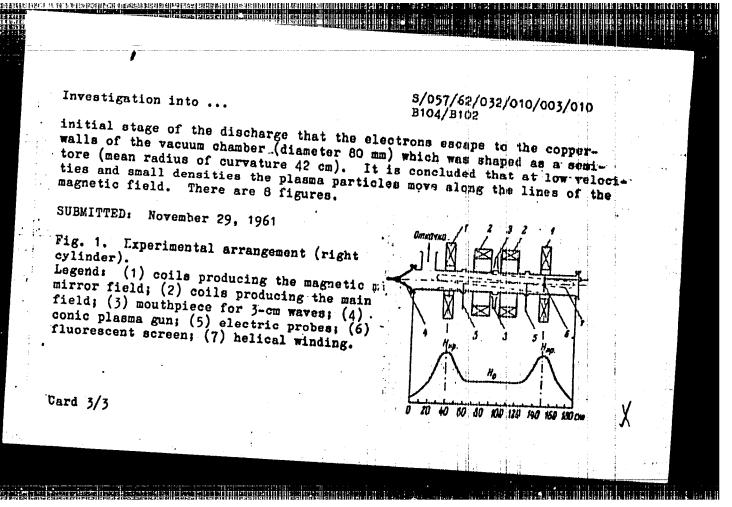
Investigation into .

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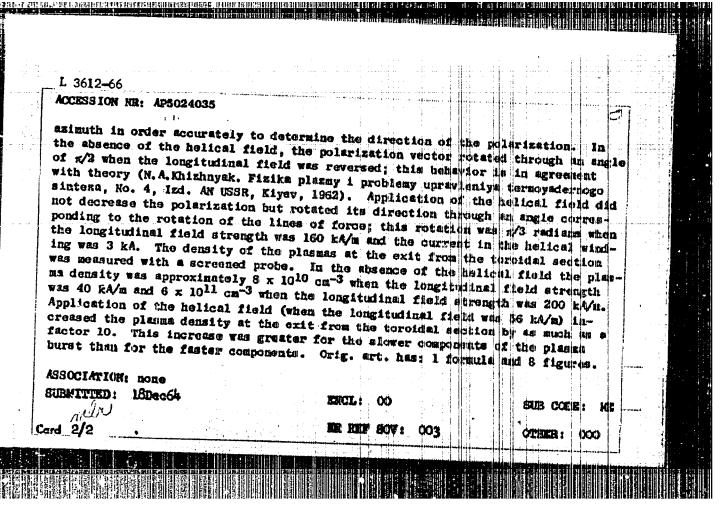
screen. As the amperage in the helical winding increases, the circles de generate to triangles, whose sides later bend inward. The largest and smallest radii of the separatrices measured as functions of I_{hel}/H_z , and

the distortions of the magnetic surfaces caused by deviations of the magnetic axis from the geometric axis, are in agreement with theoretical results. The cross sections of the plasma clouds were studied as functions of Ihel/Hz in clouds completely filling the cross section of the tube, and

in clouds partially screened by disphragms. In the former case two types of particles were distinguished, one type remaining trapped in the central part of the cloud bounded by a separatrix, the other escaping from the confinement region. In the second case all plasma particles remained in the confinement region if the radius of the separatrix exceeded that of the clouds, but if it was smaller the same result was obtained as in the first The separatrix is a function of the confining induction and of the amperage in the helical windings. This agrees with the theory. magnetic surfaces in the curvilinear chamber of a stellarator model was studied by the same methods, yielding practically the same results with the electron beam as those obtained with the right cylinder. It is only in the Card 2/3



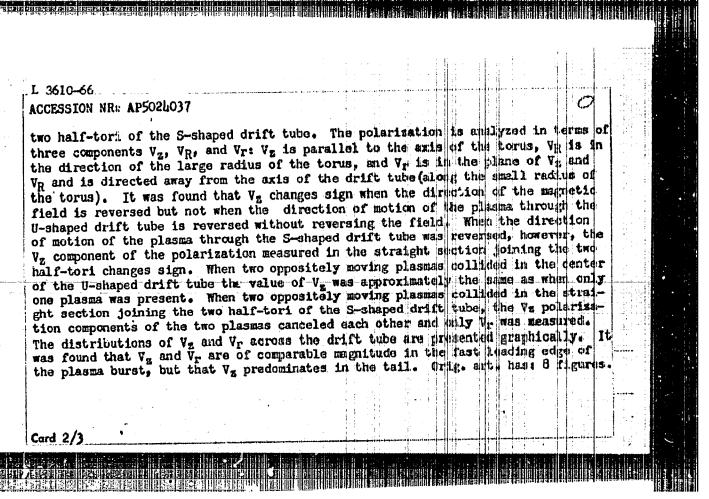
L 3612-66 EWT(1)/ETC/EPF(n)-2/EWG(m)/EPA(w)-2 IJP(c) AT ACCESSION NR: AP5024035 UR/US7/ES/035/009/1894/1597 AUTHOR: Il'yenko, B.P.; Lats'ko, Ye.M.; Zalkind, V.M.; Zwiiv, V.G.
netic field 7,44 5
SOURCE: Zhurnal tekhnicheskoy fiziki, v. 35, no. 9, 1965, 1584-1597 TOPIC TAGS: inhomogeneous plasma, electric field, toroidal geometry, longitudinal magnetic field, helical magnetic field
ARSTRACT: The authors have investigated the effect of an additional triple helical magnetic field on the polarization of plasmas moving in a toroidal magnetic field. The longitudinal magnetic field (up to 200 kA/m) was produced in a 4 cm radius U-shaped copper drift tube by suitable windings powered with de generators. The large radius of the toroidal section of the drift tube was 42 cm and the
straight legs were 80 cm long. The helical field was produced by a 134 cm reciprocal pitch 5.4 cm radius triple helical winding carrying currents up to 3 kd. Plasmas with ion densities exceeding 1010 cm ⁻³ were inject at one end by a control plasma gum. The electric (polarization) field in the plasma was measured with a plane probe at the exit from the toroidal section; this probe equild be rotated in
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Maria Constant	"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618520015-3
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	AUTHOR: 11 yeaks, B.P.: Lata kg. Vo. W. 731-14-15 19.57/83/035/009/1598/1801
	TITLE: Investigation of the polarization of a plasma moving in a toroidal magne-
 .	tic field plasma moving in a toroidal ungre-
	SOURCE: Zurnal tekhnicheskoy fiziki, v. 35, no. 9, 1965, 1598-1601
	TOPIC TAGS: inhomogeneous plasma, electric field, toroidal geometry, longitudinal
	ABSTRACT: The authors measured the polarization of plasmas moving in a toroldal magnetic field. The magnetic field (up to 200 kA/m) was produced in a U-shaped
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. !	from the toroidal section. The polarization field had compensate in the direction
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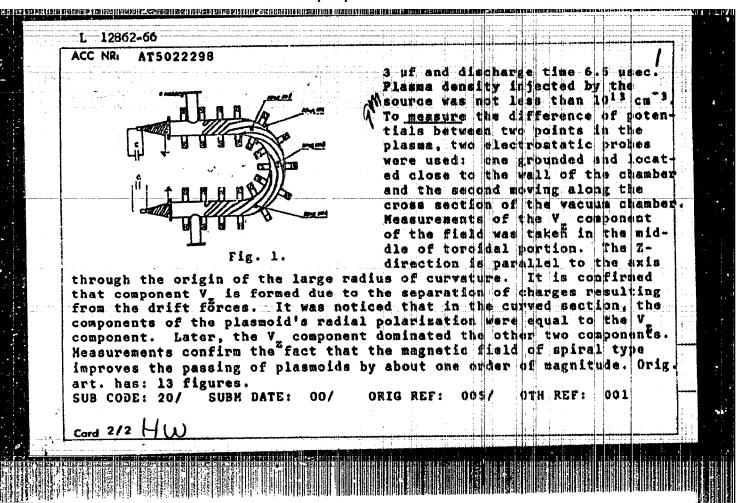
ACCESSION NR: AP502h037 AUTHOR: Il'yenko, B. P.; Lats'ko, Ye. K.; Zalkind, V. M.; Zykov, V. G.; Tolok, J. TITLE: Investigation of the polarization of plasmas moving in suggested rields of opposite curvatures SOURCE: Zhurnal tekhnicheskoy fiziki, v. 35, no. 9, 1965, 1601-1605 TOPIC TAGS: inhomogeneous plasma, electric field, toroidal geometry, longitudinal magnetic field, using the apparatus described in the two accompanying papers (Zhira 35, 1598, 1601, 1965 (see abstracts AP502h035 and AP502h036)) and, in addition, a 7-h cm diameter S-shaped copper drift tube consisting of two half-tori of 35 cm large radius joined by a 20 cm long straight section. A longitudinal magnetic field of 200 kA/m was maintained in both drift tubes. Plasmas could be injected at either or both ends of both drift tubes by means of conical plasma guma. The polarization of the plasmas was measured with probes located at the center of the toroidal section of the U-shaped drift tube and in the straight section joining the		
TITLE: Investigation of the polarisation of plasmas moving in magnetic fields of opposite curvatures SOURCE: Zhurnal tekhnicheskoy fiziki, v. 35, no. 9, 1965, 1601-1605 TOPIC TAGS: inhomogeneous plasma, electric field, toroidal geometry, longitudinal magnetic field, ABSTRACT: The authors measured the polarisation of plasmas moving in a toroidal magnetic field, using the apparatus described in the two accompanying papers (Zhi? 35, 1598, 1601, 1965 /see abstracts AP5021035 and AP5021036) and, in addition, a 7-4 cm diameter S-shaped copper drift tube consisting of two half-tori of 35 cm large radius joined by a 20 cm long straight section. A longitudinal magnetic field of 200 kA/m was maintained in both drift tubes. Plasmas could be injected at either or both ends of both drift tubes by means of conical plasma guns. The pol-	LA	3610-66 ETC/EPF(n)-2/EMG(m)/EPA(w) 2 LJP(n) A UR/X057/45/035/CD9/16C1/16D5 4.5 UR/X057/45/035/CD9/16C1/16D5 4.5 S33.9 4/2 UR/X057/45/O35/CD9/16C1/16D5 4.5 S33.9 4/2 UR/X057/45/O35/CD9/16C1/16D5 4.5 S33.9 4/2 UR/X057/45/O35/CD9/16C1/16D5 4.5 UR/X05/CD9/16C1/16D5 4.5 UR/X05/CD9/16D5 4.5 UR/X05/CD9/16C1/16D5 4.5 UR/X05/CD
TOPIC TAGS: inhomogeneous plasma, electric field, toroidal geometry, longitudinal magnetic field, ABSTRACT: The authors measured the polarization of plasmas moving in a toroidal magnetic field, using the apparatus described in the two accompanying papers (Zhi? 35, 1598, 1601, 1965 /see abstracts AP5024035 and AP5024036) and, in addition, a 7-4 cm diameter S-shaped copper drift tube consisting of two half-tori of 35 cm large radius joined by a 20 cm long straight section. A longitudinal magnetic field of 200 kA/m was maintained in both drift tubes. Plasmas could be injected at either or both ends of both drift tubes by means of conical plasma guns. The polarization of the plasmas was measured with probes located at the center of the tor-	7	TITLE: Investigation of the polarisation of plasmas moving in suggested rields of
magnetic field, using the apparatus described in the two ac impanying papers (Zhīr 35, 1598, 1601, 1965 /see abstracts AP502h035 and AP502h036) and, in addit on, a 7-h cm diameter S-shaped copper drift tube consisting of two half-tori of 35 cm large radius joined by a 20 cm long straight section. A longitudinal magnetic field of 200 kA/m was maintained in both drift tubes. Plasmas could be injected at either or both ends of both drift tubes by means of conical plasma guns. The polarisation of the plasmas was measured with probes located at the center of the tor-	1	TOPIC TAGS: inhomogeneous plasma, electric field, toroidal geometry, longitudinal
		ABSTRACT: The authors measured the polarisation of plasmas moving in a toroidal magnetic field, using the apparatus described in the two accompanying papers (Zhi? 35, 1598, 1601, 1965 /see abstracts AP502h035 and AP502h036) and in addition, a function of two half-tori of 35 cm large radius joined by a 20 cm long straight section. A longitudinal magnetic field of 200 kA/m was maintained in both drift tubes. Plasmas could be injected at either or both ends of both drift tubes by means of conical plasma gums. The polarisation of the plasmas was measured with probes located at the center of the tor-

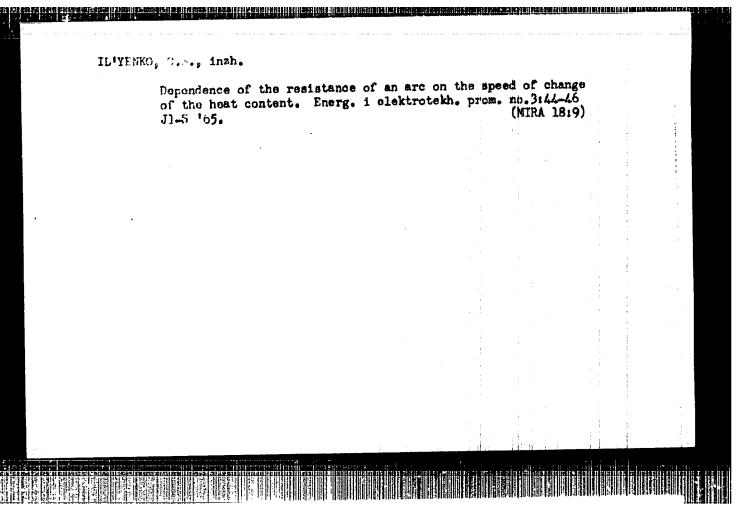


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	ACC NR. AT5022298 SOURCE CODE: UR/8137/64/000/048/0001/0015 AUTHOR: Il'yenko, B. P.; Lats'ko, Ye. M.; Z#lkini, V. M.; Zykov, V. G.;	,
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- 1	ORG: Physicotechnical Institute, Academy of Sciences UkrSSR (Fiziko-tekhnicheskiy institut Akademiya nauk UkrSSR)	
1	TITLE: Investigation of a plasmoid moving in a toroidal magnetic	
	SOURCE: AN UkrSSR. Fiziko-tekhnicheskiy institut. Doklady, no. 048/P- -007, 1964. Issledovaniye plazmennogo sgustka, dvizhushchegosya v	
	TOPIC TAGS: plasmoid, plasma magnetic field, plasma density, plasma	
G	ABSTRACT: The present paper is a continuation of an investigation of electrical fields in plasmoids moving in curved magnetic fields. Fig. 1 tigation. The maximum magnetic field was 200 kg/minus used in the investigation.	
t	tigation. The maximum magnetic field was 200 ka/m. length of victuum tube was 252 cm, effective radius of spiral windings was 5.4 cm. The plasma was injected from conical plasma sources. Battery capacity was	
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		Total Control





VOIZHENSKIY, A.V., prof., zasluzhennyy deyatel' nauki i tekhziki RSFSR;
IL'YENKO, I.A., aspirunt

Heavy and light concretes with bindors of gravulated clinkers.
Stroi.mat. 8 no.1:31-35 Ja '62. (MIRA 15:5)

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury
SSSR (for Volzhenskiy). (Concrete)

VOIZHENSKIY, A.V., laureat Leninskoy premii, prof., doktor tekhn.mauk;
VOROB'TEV, I.A.; GIADKIKH, K.V., insh.; VINOGRADOV, B.W., insh.;
IL'TENKO, I.A., insh.

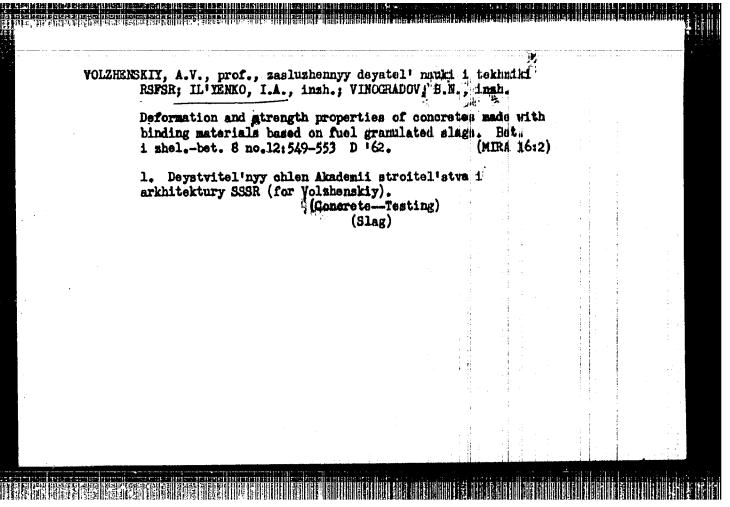
Use of binding materials made of granulated fuel slag for the mammfasture of wall materials. Stroi. mat. B no.5:5-8 My '62.

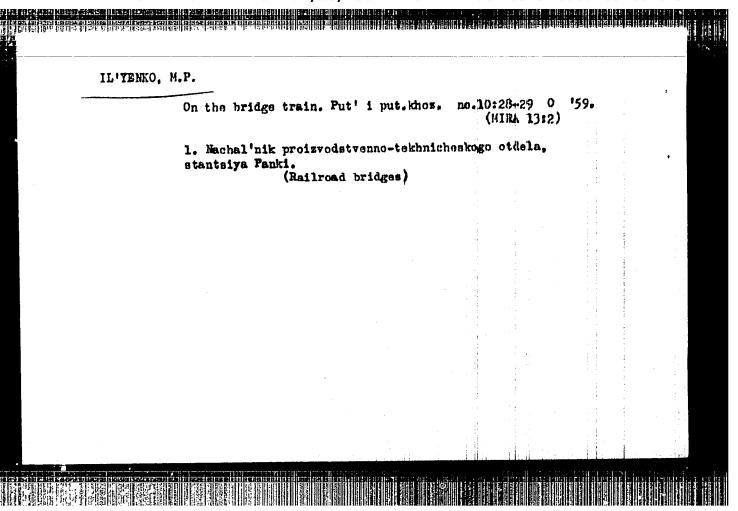
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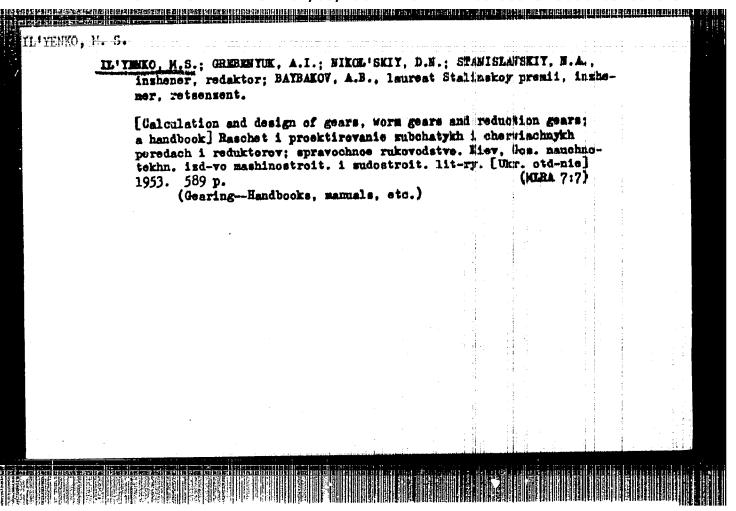
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(Slag)

(Building materials)



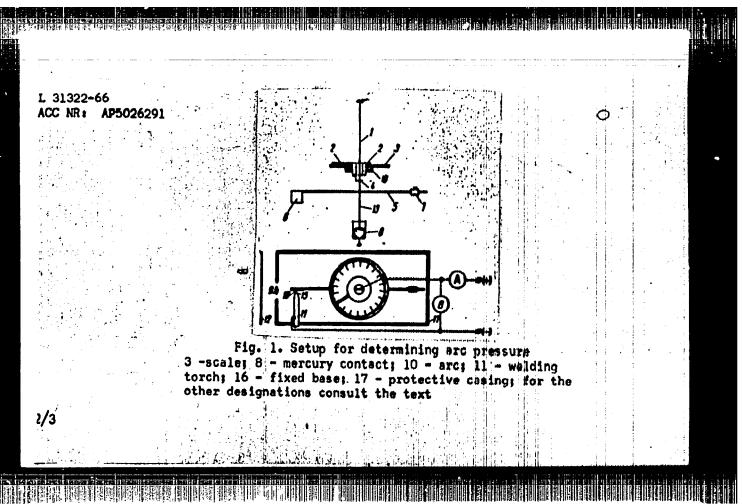




ABSTRACT: The welding arc exerts a definite mechanical effect, termed arc pressure, on the pool of molten metal. During welding with a nonconsumable electrode, this effect is created chiefly by the pressure of the arc's plasma jet and conditioned by the pinch effect. Since during welding, in an overwhelming majority of cases, the electrode is positioned at right angles to the weldment, the Molten pool is acted upon not only by arc pressure but also by the electromagnetic force of the welding circuit, In this connection, the authors designed a special setup for measuring the pressure of low-amperage argon arc on the molten pool during welding with a nonconsumable electrode (see Fig. 1 of the Enclosure). Its principal feature is mobile rod 5, with plate 6 of OKh13N9T stainless steel attached to one end of the rod and counter.

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weight 7 attached to its other end. Soldered to rod 5 is copper rod 13, with one end immersed in a mercury bath and with thin silk thread I tied to the other and. In this position, mobile rod 5 is in a state of equilibrium. Are pressure is balanced by means of helical spring 4, one end of which to affixed to god 13 and the other end, to bushing 2 with a pointer. The arc burns between plate 6 and electrode 15. By means of lens 9 the arc is projected onto screen 12 with tenfold magnification. The experiment is performed as follows: Gas is turned on, thus deviating the mobile part of the device. This deviation is compensated by the bushing with helical spring 4. Bushing 2 rotates until the necessary distance is established between electrode 15 and plate 6. Then the pointer of the device indicates the gas pressure (in mg). The arc ignites. Its pressure is balanced by further rotation of bushing 2 until the necessary are length is obtained. The difference in readings gives the arc pressure. The length of the arc is determined from its projection onto screen 12. In this way, it was determined that during welding with a 2-13 a argon are by means of a tungsten electrode (1.5 mm diameter) the arc pressure on the molten pool varies from 0.2 to 10.5 mg and is directly proportional to the square of current intensity. As the arc length increases, the arc pressure decreases insignificantly. A change of 50% in the flow rate of protective gas does not appreciably affect the arc pressure. Orig. art. has: 3 figures.

SUB CODE: 11,13/ SUBM DATE: 19Nov64/ ORIG REF: 005/ OTH REF: 003

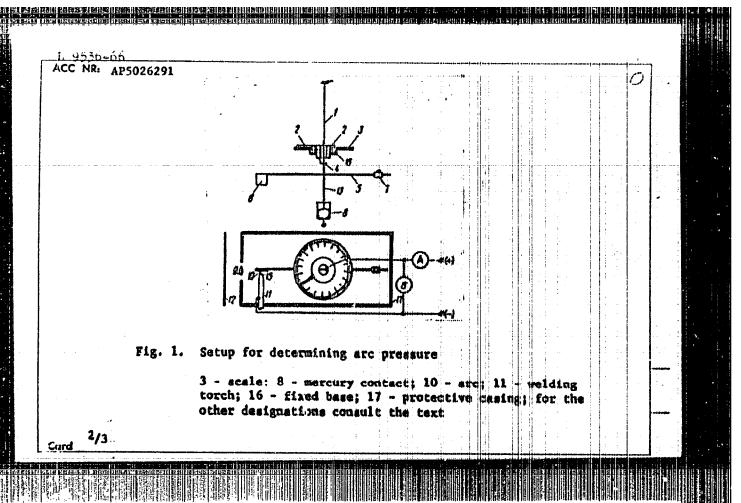
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CODE: 11,13/ SUEM DATE: 19Hov64/ ORIG REF: 005/ OTH REF: 003	gth is obtained. The difference are is determined from its project that during welding with a 2-5 mm diameter) the arc pressure directly proportional to the squases, the arc pressure decrease.	in readings give jection onto scree -13 a argon arc b on the molten po- uare of current in s insignificantly	s the arc en 12. In y means of ol varies ntensity. A	ressure. The his way, it is tungsten from 0.2 to is the src l	a length was deter electrode 10.5 mg ar ength in-	nd	
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ACC NR: AP7004192

SOURCE CODE: UR/0125/67/000/001/0019/0021

AUTHOR: Alekin, L. Ye.; Il'yenko, N. A.

ORG: MVTU im. N. E. Bauman

TITLE: Effect of welding conditions and accuracy of assembling of the welded joint on the formation of the suspension weld

SOURCE: Avtomaticheskaya svarka, no. 1, 1967, 19-21

TOPIC TAGS: stainless steel, welding technology, butt welding, automatic welding, weld evaluation/ OKh18N9T stainless steel

ABSTRACT: Although the common consensus is that the butt welding of thin metal sections must follow a rigorously maintained welding regime, there is no direct proof of this. Previous studies of the dependence of geometrical dimensions of the weld in such cases pertained to continuous metal without any clearance and hence their findings do not reflect all the features of the weld formation in cases where the argon-atmosphere butt welding of joints, and particularly pipe joints, is performed by automatic welding machines so that at first the weld takes form by gravity. To determine the accuracy with which the automatic welding machine must maintain the parameters of the welding process it is primarily necessary to investigate the effect of welding current, welding voltage and welding rate on the geometrical dimensions of the

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UDC: 621.791.856.02:669.15-194

ACC NRI AP7004192

weld. Accordingly, the authors investigated the argon-arc nonconsumable-electrode welding of OKh18N9T stainless steel 0.2 and 1 mm thick, performed so as to preclude any constriction of the clearance between the specimens during the welding. The geometrical dimensions of the weld were determined with the aid of an epidioscope. These experiments showed that the welding of the 1 mm thick metal over a clearance of the width 0.1 mm does not result in any explicit burnout or poor penetration or weakening of the weld when the current I_w is varied from 55 to 130 a; the arc length I_{uj} , from 0.15 to 1.3 mm; the arc voltage I_{uj} , from 7 to 8 v; and the welding rate v_{uj} , from 15 to 35 m/hr. A similar pattern was observed for the metal 0.2 mm thick. Nevertheless it turns out that considerations of weld geometry require some restriction of this range of variation in energy parameters. Thus, e.g. for the 1 mm thick steel with a clearance of 0.1 mm it is desirable that $I_u = 0.4$ -1.30 mm; $I_w = 55$ -80 a; $I_u = 7$ -8 v; $I_w = 15$ -35 m/hr. A similar range of variations in energy parameters should be followed in the case of clearance-free welding or toe welding of metals of the same thickness. Orig. art. has: 3 fig. and 1 table.

SUB CODE: 13, 11/ SUBM DATE: 18Jul66/ ORIG REF: 005

Card 2/2

CIA-RDP86-00513R000618520015-3 "APPROVED FOR RELEASE: 04/03/2001

\$/123/59/000/008/023/043 A004/A002

Translation from: Referativnyy zhurnal, Mashinostroveniye, 1959, No. 8, p. 88, # 29238

AUTHOR:

Il'yenko, N. M.

TITLE:

Mechanical Flaring of Steel Tubes of 20-25 mm Diameter on a Radial

Drilling Machine

PERIODICAL: Prom-st' Kubani (Sovnarkhoz Krasnodarsk. ekon. adm. r-na), 1958,

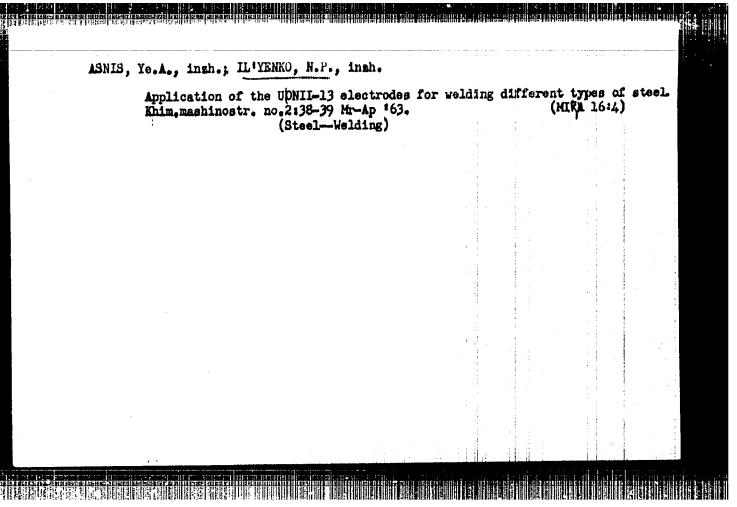
Nos. 1-2, p. 18

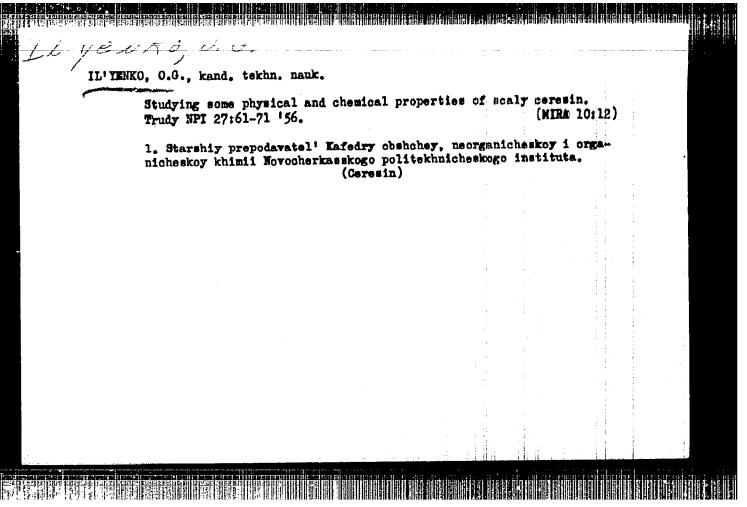
TEXT:

Bibliographic entry

Card 1/1

CIA-RDP86-00513R000618520015-3" APPROVED FOR RELEASE: 04/03/2001





ILTYENKO, O.G.; PEROV, Ye.V., kand. tokhn. nauk, otv. red.; DUROV,

S.A., doktor khim. nauk, red.; PONOMAREV, I.F., doktor khim.

nauk, red.; MCNOZOVA, A.I., kand. khim. nauk, red.; TCRGASHEV,
P.D., kand. khim. nauk, red.; POGREBTSOVA, L.V., red. izd.-va;

NAUMOVA, Yu.A., tekhn. red.

[Motor-vehicle fuels and lubricants]ivtomobil nys topliva i

smazochnye materialy. Novocherkasek, Redaktsicano-indatel'skii otdel NPI, 1960. 112 p. (MIRA 15:11)

(Motor vehicles—Lubrication) (Motor fuels)

integration of the differential equation of an acc column with isothermal plasma cooled by means of heat conductivity. Dop. AN URSE no.7:925-929 '64. (MIRA 17:9) 1. Kiyevskiy politekhnicheskiy institut. Fredstavleno akademirem B.Ye.Patonom [Paton, B.IE.].		MINHO, 11 72 (C.S. 111 10000, U.S.)
1. Kiyevskiy politekhnicheskiy institut. Fredskavlero akademirem B.Ye.Pstonom [Paton, B.IS.].	TABLE OF DUBLIC CONTRACTOR OF A SECTION OF THE SECT	fatthermal plasma cooled by means or hear
akademirom B.Ye.Patonom [laton, B.Jo.].	y institut. Fredstavleno	1. Kiyevskiy politekhnicheskiy institut.
	a, Helioeje	akademirom B.Ye.Patonom [inton, B.Ho.].

FEDCHEMIO, I.K.; IL'YENKO, O.S. [Il'ienko, C.S.]

Study of the dependence of the redius of a d.c. arc on the current intensity and temperature. Dop. AN URSh no.9; 1187-. (MIRA 17:11)

1. Kiyevskiy politekhnicheskiy institut. Predstavleno akademikon B.Ye. Patonom [Paton, B.IE.].

FEDCHENKO, I. K., doktor tekhn. nauk, prof.; IL'YENKO, O. S., inzh.

Determination of the critical parameters of an open a.c. ard using an energy balance technique. Izv. vym. ucheb. zav.; energ. 7 no.5;20-28 My '64. (MIRA 17:7)

1. Kiyevskiy ordena Lenina politekhnicheskiy institut. Predstavlena kafedroy teknniki vysokikh napryazheniy.

ACCESSION MR: AP4040323

8/0057/64/034/006/1139/1136

AUTHOR: Il'yenko, 0.8.

TITLE: Concerning the backward motion of the cathode spot of an arc in a magnetic field (Letter to the editor)

SCURCE: Ehurmal tekhnicheekoy fiziki, v.34, no.6, 1964, 1132-1136

TOPIC TAGS: electric arc, cathode spot, Hall effect, magnetic phenomena

ABSTRACT: An explanation is offered for the backward motion of the cathode spot of an arc in a transverse magnetic field, based on the large difference between the, Hall coefficients of the arc column and the metal of the electrode. The Hall coefficient of the arc is large because of the large mobility of the electrons and the relatively small mobility of the ions. The Hall emf is accordingly much greater in the arc than in the metal, and circulating currents consequently arise which cross the arc column in the direction of the Hall emf and return through the metal electrode. These currents are strongest near the electrode because of the resistance of the arc. The magnetic field of these circulating currents is opposed to the external magnetic field that induces them. Although this secondary magnetic field obvi-

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ACCESSION NR: AP4040323

ously cannot everywhere exceed the external field that gives rise to it, it is as—
sumed that under suitable conditions the secondary magnetic field can become greater than the applied field in the immediate vicinity of the electrical. When this is
the case, the penderometive force on the material of the arc is in the opposite
direction to that which would result from the applied field alone, and the cathode
spot moves "backward". This suggested explanation is not developed into a quantitative theory, but a number of features of backward cathode apot motion are interpreted qualitatively. It is concluded that the Hall effect plays a decisive role in
the backward motion of the cathode spot of an arc in a magnetic field. Orig.art.
has: 6 formulas and 1 figures.

ASSOCIATION: Kiyevskiy politekhnicheskiy institut (Kiev Polytechnic Institute)

SUBMITTED: 18May63

DATE ACQ: 18Jun64

ENCL: 00

SUB CODE: EM

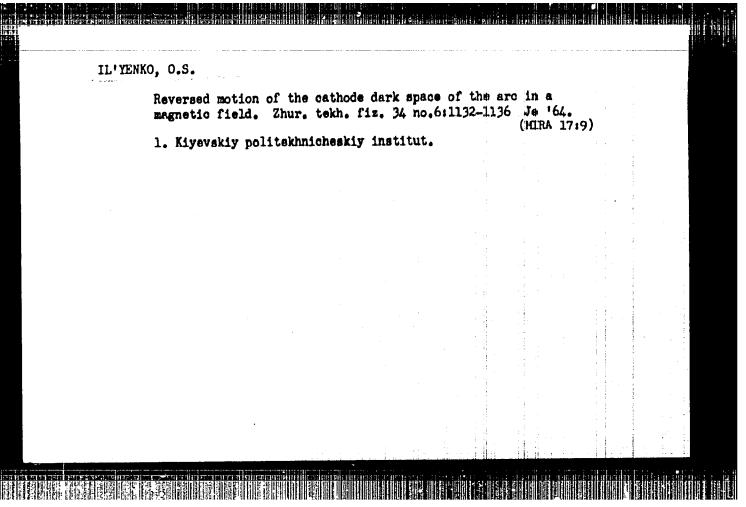
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OTHER: 001

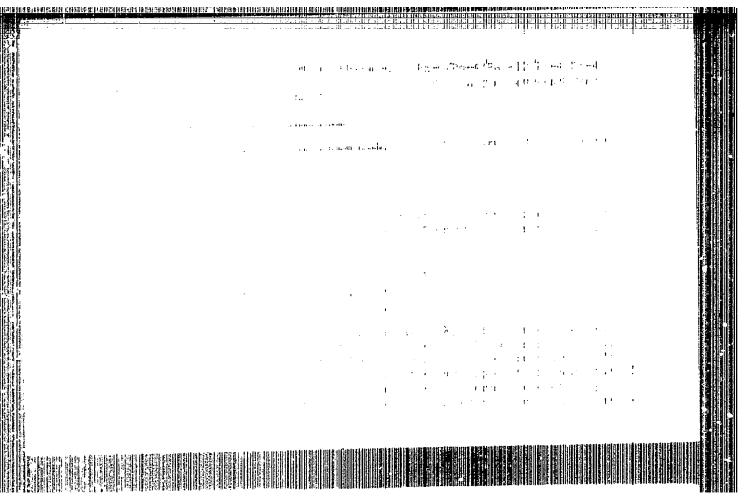
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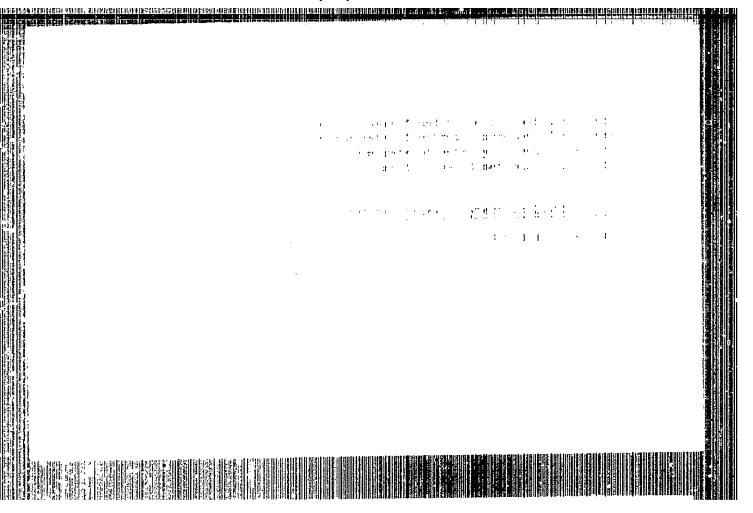
APPROVED FOR RELEASE: 04/03/2001

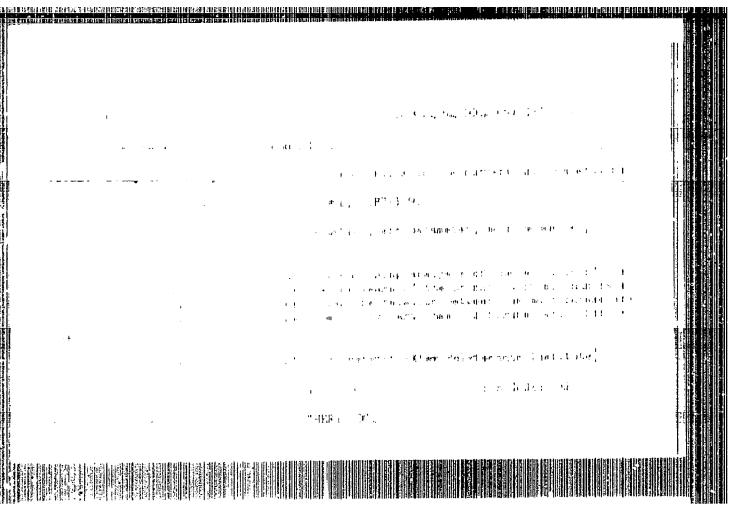
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"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000618520015-3







124-11-13315

Translation from: Referativnyy Zhurnal, Mekhanika, 1957, Nr 11, p 145 (USSR)

AUTHORS: Pukhov, G. Ye., Ilyenko, O. V., Chegolin, P.M.

Electrical Simulation of a Flexible Bar. TITLE:

(Elektricheskiye modeli izgibayemogo sterzhnya.)

PERIODICAL: V sb.: Elektr.modelirovaniye balok i ram, Taganrog, 1956, pp 17-21

Bibliographic entry ABSTRACT:

Card 1/1

CIA-RDP86-00513R000618520015-3" APPROVED FOR RELEASE: 04/03/2001

124-1957-10-12083 16 YENKO, O.V. Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 10, p 124 (USSR) AUTHOR: Il'yenko, O. V. The Calculation and Simulation of Hinged Girders (Raschet i TITLE: modelirovaniye razreznykh balok) V sb.: Elektr. modelirovaniya balok i ram. Taganrog, 1956, PERIODICAL: pp 28-36 Bibliographic entry ABSTRACT: Card 1/1

124-1957-10-12077 IL YENKO, Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 10, p 123 (USSR) Ili yenko, O. V. **AUTHOR:** Determination of the Bending and Torque Moments in Simple TITLE: Cross Beams and in Beams Having a Broken Plan Form (Opredeleniye izgibayushchikh i krutyashchikh momentov v prostykh perekrestnykh i lomanykh v plane balok) PERIODICAL: V sb.: Elektr. modelirovaniye balok i ram. Taganrog, 1956, pp 50-58 ABSTRACT: Bibliographic entry Card 1/1

IL'YENKO, O. V., Cand Tech Sci -- (diss) "Designing and modeling of certain plane and space states systems by means electric analogy achieved." Taganrog, 1957. 8 pp (Min of Higher Education USSR, L'vov Polyhachnike Inst), 200 copies (KL, 1-58, 118)

- 51 -

SOV/112-59-1-87

. Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 1, p 7 (USSR)

AUTHOR: Il'yenko, Or

TITLE: Electric Simulator for Determining Bending Moments and Twisting Moments in Planar and Spatial Beams and Trusses

PERIODICAL: V sb.: Mezhvuz. konferentsiya po primeneniyu modelirovaniya v elektrotekhn. zadachakh i matem. modelirovaniya. M., 1957, pp 168-169

ABSTRACT: A simulator has been constructed for investigating the following systems: (1) spatial trusses with rigid joints, with up to 15 bars, with one closed diagram; (2) continuous and hinged beams with up to 10 spans; (3) a planar truss with rigid and nonrigid joints, 10 bars, and with one closed diagram. The systems under investigation may be subjected to various external factors: (a) forces, (b) temperatures, (c) displacements of supports or other links. In case of a planar framework, an allowance may be made for an elastic constraining of the uprights. The simulator can serve for

Card 1/2

CIA-RDP86-00513R000618520015-3" **APPROVED FOR RELEASE: 04/03/2001**

SOV/112-59-1-87

Electric Simulator for Determining Bending Moments and Twisting Moments determining the bending-moment epure and for constructing the elasticity line along a bar from specified values of turning angles and bending moments at the bar's ends. The simulator is AC supplied and comprises wire-wound rheostats (no detailed description of its circuit diagram is supplied). The results obtained from the simulator differ from those calculated by 5% or less.

L.V.N.

AUTHOR

TITLE

PUKHOV G.Ye., Dr. techn. Prof., IL'TENKO O.V., Ing.,

PA - 3104

Cl

CHEGOLIN P.M., Ing.

Electrical Models for a Bendable Beam.

(Elektricheskiye modeli izgibayemogo sterzhnya Russiam)
PERIODICAL Elektrichestvo, 1957, Vol ?, Nr 5, pp 45 - 47, (U.S.S.R.)

Received 6/1957 Reviewed 7/1957

ABSTRACT

Several different electrical models of a bendable bear were proposed. These models do not have negative resistances and are therefore free of the defects which are usually connected with the electronic amplifier provided models. One of the schemes is, because of the unsymmetry in regard to the longer axis, usable only for modelling in those beam systems which do not produce a closed current system. There is also a system shown which is symmetrical in regard to the longer axis. A scheme without negative resistance can be maintained by means of a contact closing of quadripoles from resistances with an ideal transformer, whereby the transformer coef-

ficient is 1%1. (With 6 ill. and 3 Slavic references)

ASSOCIATION

Radio Technical Institute of Taganrog

PRESENTED BY

Submitted

13.4.1956

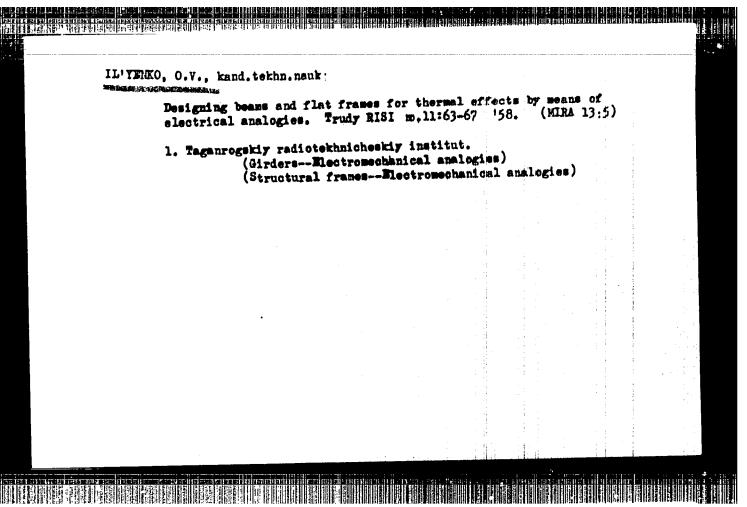
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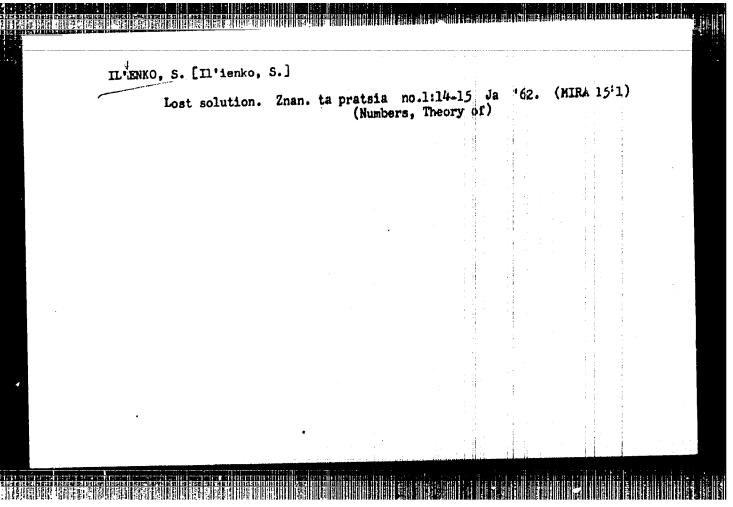


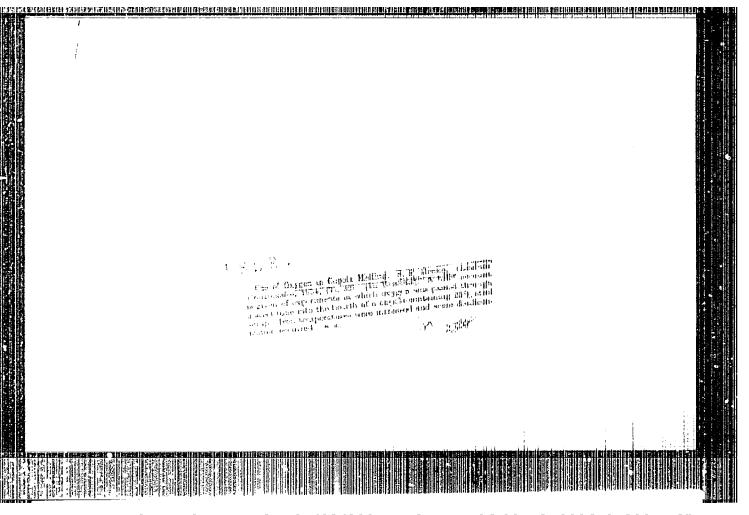
PUKHOV,	G.Ye., prof., doktor tekhn,					
	Taking into account bends ing electric analyzers for 158.	in foundations frames. Trudy	of supp RISI	orts in dec no.11:72-79 (MIRA 19	, , , ,	
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	(Vonndations)	mes		. nnalogies)	
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PUKHOV, G.Ie., prof., doktor tekhn.nauk; IL'TENO. O.V., kand.tekhn.nauk

Flectric analyzers for beans and frames on solid eleastic basis and rigid supports. Trudy RISI no.11:130-135 '58. (MIRA 13:5)

1. Taganrogskiy radiotekhmioheskiy institut.
(Structural frames--Electromohanical analogies)
(Girders--Blectromechanical analogies)

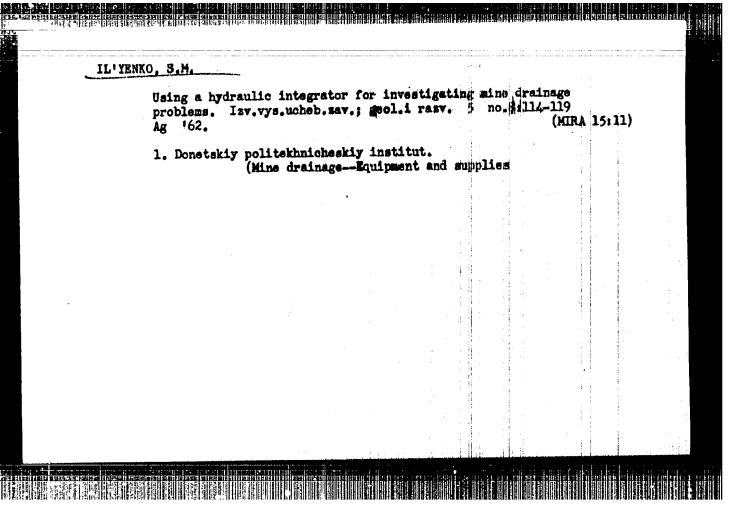




underground drainage of inclined and steep coal deposits whitehouse worked by the open method." Stalino, 1958. 16 pp (Min of Higher Education USSR. Mos Eining Inst im I.V.Stalin), 150 copies (KL, 30-58, 127)

-76 -

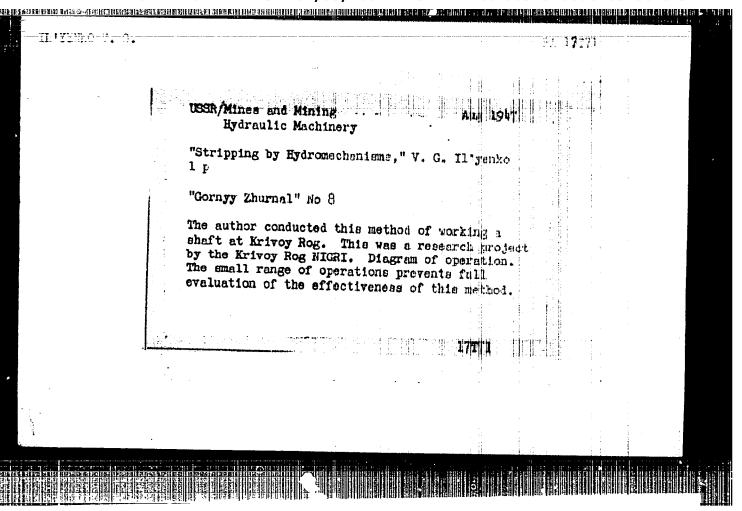
Use of electrohy of coal deposits	drodynamic and . Ugol! Ukr.5	no.3:42-43 E	olving o	iraina	ge prol	blems 14:3)	
1. Donetskiy pal	itekhnicheski; (Mine draina)	r institut. ge)					·
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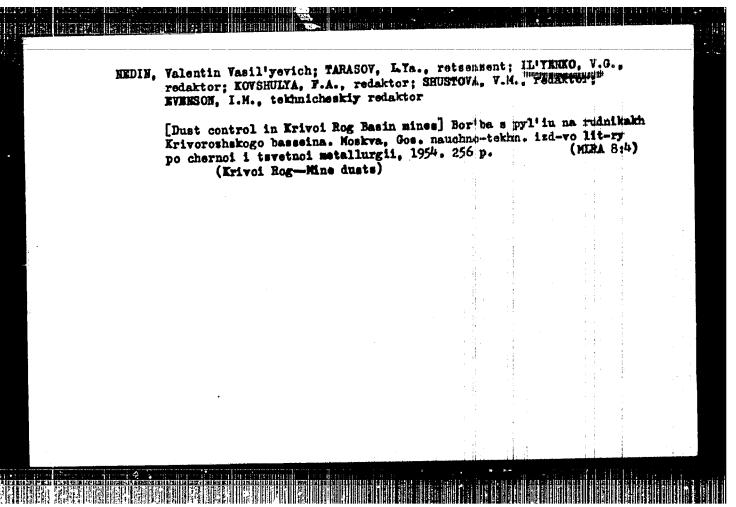


ASTRAKHAN', A.2.; IL'YENKO, S.M., dotsent

Determining the optimal speed of carrying out mining operations in preparing levels for retreat mining. Ugol' 39 no.7:10-12
J1 '64. (HIRA 17:10)

1. Upravlyayushchiy trestom Selidovugol' (for Abtrakhan').
2. Donetskiy politekhnicheskiy institut (for Il'yenko).





LL'YENKO. Yagiliy Grigor'yevich; TORSKIY, P.H., redaktor; SHUSTOYA, V.M., redaktor izdetel'stva; ATTOPOVICH, M.K., tekhnicheskly redaktor

[Measures for dust control in mining Krivoy Rog mines] Protivopyl'nys meropritatiin pri prokhodke gorayth vyrabotok v Krivemeshakom basselne.

Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po chernol i tavetnoi metallurgii. 1956. 68 p. (MIRA 9:10)

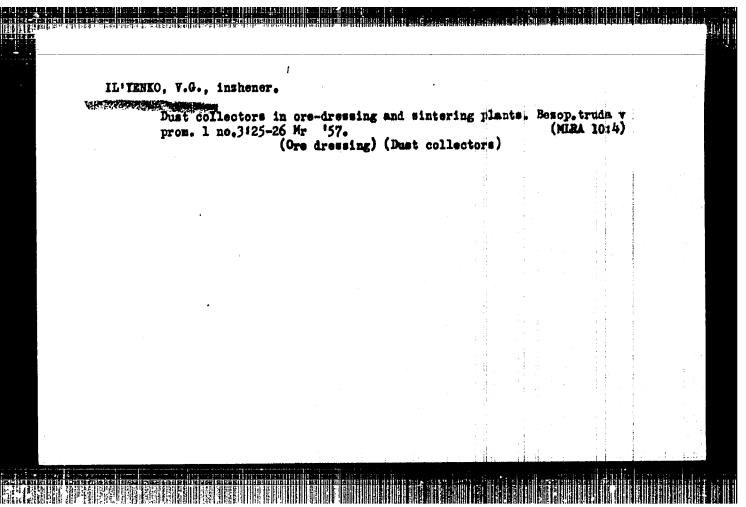
(Krivoy Rog.-Mine dusts)

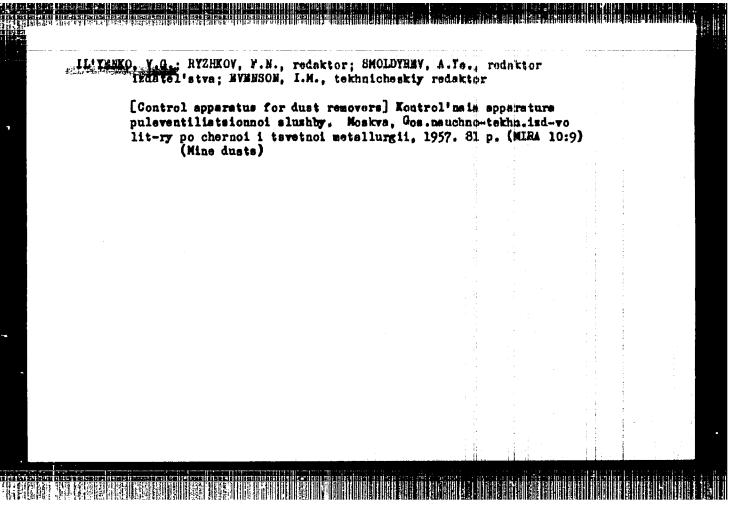
IL'YENKO, V.G., gornyy inshener

Mad-catching device in boring ascending bore heles. Gig. 1 san. 21 no.11:75-77 N '56.

1. In Krivoroshekogo mauchno-issledovatel'skoge gornprudnego institute.

(IMDUSTRIAL HYGIESE prev. of accidents with new mud catching device in drilling of blast holes)





Vital problem Basin. Besop.		ation of mine 1 no.12:9-11	יי ע. 🗄	ivoy Rog 1 12:3)	
1.Krivere:heki	ly nauchne-iseld (Krivei Reg	dovatel'skiy Basin-Hine v	gornorulnyy entiletica)	lactitut.	

